## WHAT IS CLAIMED IS:

- 1. A semiconductor device manufacturing method comprising the steps of:
- a) forming at least one conductive layer pattern on a substrate, thereby forming a resulting structure;
- b) forming an interlayer insulating layer on the resulting structure;
- c) exposing contact regions between the conductive layer patterns; and
- d) after the step c), forming an insulating spacer on sidewalls of the conductive layer patterns.
- 2. The method of claim 1, wherein the interlayer insulating layer is formed of a material having a dielectric constant less than 3.5.
- 3. The method of claim 2, wherein in step b), the interlayer insulating layer is formed of an oxide layer.
- 4. The method of claim 3, where in step c), the interlayer insulating layer is etched with a gas mixture including Ar, C, and F.
- 5. The method of claim 4, wherein in step c), the interlayer insulating layer is etched at a pressure of 1 mTorr to 100 mTorr.
- 6. A method of claim 1, after step b), further comprising a step of:
- b1) forming a mask pattern covering a top portion of the conductive layer patterns, wherein the mask pattern is formed of a layer selected from a group consisting of a silicon

nitride layer, a silicon oxy-nitride layer, and an oxide layer.

- 7. The method of claim 2, wherein in step b), the interlayer insulating layer is formed of a polymer.
- 8. The method of claim 7, wherein in step c), the interlayer insulating layer is etched by using a gas selected from Ar,  $O_2$ ,  $N_2$ ,  $H_2$ ,  $CH_4$ ,  $C_2H_4$ , and  $C_xF_y$ .
- 9. The method of claim 8, wherein in step c), the interlayer insulating layer is etched at a pressure of 1 mTorr to 100 mTorr.
  - 10. The method of claim 2, the step c) comprising:
- C1) providing an etching mask, wherein a contact hole pattern selected from a group consisting of a straight line shape, T-shape, and I-shape is defined; and
- C2) etching the interlayer insulating layer with the etching mask.
- 11. A semiconductor device manufacturing method comprising the steps of:
- a) forming conductive layer patterns on a substrate, forming a resulting structure;
- b) forming an interlayer insulating layer on the resulting structure; and
- c) exposing contact regions between the conductive layer patterns, by selectively etching the interlayer insulating layer, and at the same time, forming a spacer by leaving the interlayer insulating layer on sidewalls of the conductive layer patterns.

- 12. The method of claim 11, wherein the interlayer insulating layer is formed with a material having a dielectric constant less than 3.5.
- 13. The method of claim 12, wherein in step b), the interlayer insulating layer is formed of an oxide layer.
- 14. The method of claim 13, where in step c), the interlayer insulating layer is etched with a gas mixture including Ar, C, and F.
- 15. The method of claim 14, wherein in the step c), the interlayer insulating layer is etched at a pressure of 1 mTorr to 100 mTorr.
- 16. A method of claim 11, after step b), further comprising a step of:
- b1) forming a mask pattern covering a top portion of the conductive layer pattern, wherein the mask pattern is formed of a layer selected from the group consisting of a silicon nitride layer, a silicon oxy-nitride layer, and an oxide layer.
- 17. The method of claim 12, wherein in step b), the interlayer insulating layer is formed of a polymer.
- 18. The method of claim 17, wherein in step c), the interlayer insulating layer is etched by using a gas selected from Ar,  $O_2$ ,  $N_2$ ,  $H_2$ ,  $CH_4$ ,  $C_2H_4$ , and  $C_xF_v$ .
- 19. The method of claim 18, wherein in step c), the interlayer insulating layer is etched at a pressure of 1 mTorr to 100 mTorr.

- 20. The method of claim 12, the step c) comprising:
- C1) providing an etching mask, wherein a contact hole pattern selected from the group consisting of a straight line shape, T-shape, and I-shape is defined; and
- C2) etching the interlayer insulating layer with the etching mask.